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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/623,517	07/22/2003	Takayuki Ishiguro	240597US90	9991	
22850 7590 01/11/2007 OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER NGUYEN, TU X		
ALEXANDRIA, VA 22314		:	ART UNIT	PAPER NUMBER	
			2618		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE	
3 MON	ITHS	01/11/2007 .	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/623,517	ISHIGURO ET AL.				
Office Action Summary	Examiner	Art Unit	_			
	Tu X. Nguyen	2618				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 27 Oc	ctober 2006.	:				
· ·	action is non-final.					
3) Since this application is in condition for allowan	olication is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.	•					
4a) Of the above claim(s) is/are withdraw	n from consideration					
5) Claim(s)is/are allowed.	in nom consideration.					
6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement					
	cicolon requirement.	·				
Application Papers						
9) The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. ☐ Certified copies of the priority documents	have been received					
· · · · · · · · · · · · · · · · · · ·	•	ation No				
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). 					
* See the attached detailed Office action for a list of		yed .				
	or the defined copies not recent	cu.				
•						
Attachment(s)						
Notice of References Cited (PTO-892)	4) 🔲 Interview Summar	v (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail I	Date				
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PTO-152)				
. For 10/2/1000 - 2000	J, L. Ottlet					

DETAILED ACTION

Claim Objections

Claim 15, line 2 objected to because of the following informalities: "plink". Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-23 and 25-26, are rejected under 35 U.S.C. 102(e) as being anticipate by Arvelo (US Patent 7,082,107).

Regarding claim 1, Arvelo discloses a method of deciding a transmit power level carried out by a wireless terminal in a mobile communications system (see col.1 lines 16-20 and fig.4, Arvelo teaching a wireless local area network which is considered include plurality terminals and a base station, the transmitter and receiver throughout the cited reference are applicable for a terminal and a base station) comprising the steps of:

deciding a multiplex number of uplink control signals (see col.5 lines 36-37); and deciding a transmit power level according to the decided multiplex number of uplink control signals (see col.5 lines 36-37, col.5 lines 50-51).

Application/Control Number: 10/623,517

Art Unit: 2618

Regarding claim 2, Arvelo discloses a method of deciding a transmit power level carried out by a wireless terminal in a mobile communications system comprising the steps of: estimating a quality of an uplink control signal (see col.5 lines 24-25); and deciding a transmit power level according to the estimated quality of the uplink control signal (see col.5 lines 36-37, col.5 lines 50-51).

Regarding claim 3, Arvelo discloses a method of deciding a transmit power level carried out by a base station in a mobile communications system (see col.1 lines 16-20 and fig.4, Arvelo teaching a wireless local area network which is considered include plurality terminals and a base station, the transmitter and receiver throughout the cited reference are applicable for a terminal and a base station) comprising the steps of: deciding a multiplex number of uplink control signals (see col.5 lines 36-37); deciding a transmit power level according to the decided multiplex number of uplink control signals (see col.5 lines 36-37); and sending the decided transmit power level as an indication value to a wireless terminal (col.5 lines 54-55, closed loop control corresponds to indication value to a wireless terminal).

Regarding claims 4, 17 and 22, Arvelo discloses a method of deciding a transmit power level carried out by a base station in a mobile communications system (see col.1 lines 16-20 and fig.4, Arvelo teaching a wireless local area network which is considered include plurality terminals and a base station, the transmitter and receiver throughout the cited reference are applicable for a terminal and a base station) comprising the steps of: detecting a quality of an uplink control signal (see col.5 lines 24-25); deciding a transmit power level according to the detected quality of the uplink control signal (see col.5 lines 36-37); and transmitting to a wireless

Application/Control Number: 10/623,517

Art Unit: 2618

terminal the decided transmit power level as an indication value (col.5 lines 54-55, closed loop control corresponds to indication value to a wireless terminal).

Regarding claims 5 and 26, Arvelo discloses a mobile communications system (see col.1 lines 16-20 and fig.4, Arvelo teaching a wireless local area network which is considered include plurality terminals and a base station, the transmitter and receiver throughout the cited reference are applicable for a terminal and a base station) comprising a plurality of wireless terminals and a base station:

wherein the plurality of wireless terminals respectively are configured to estimate a quality of uplink control signal and to inform degradation of the quality of the uplink control signals to the base station in a case where one of the respective wireless terminals estimate the degradation of the quality of the uplink control signals (see col.5 lines 24-25); and

the base station is configured to decide to increase a transmit power level of the uplink control signals from each of the wireless terminals when the base station received from one of the wireless terminals an information that the quality of the uplink control signals for informing an incorrect receipt of the downlink data signals is degraded (see col.5 lines 36-36) and to decide to decrease the transmit power level of the uplink control signals from each of the wireless terminals when the base station received from one of the wireless terminals an information that the quality of the uplink control signals for informing a correct receipt of the downlink data signals is degraded (see col.5 lines 44-45), and to send an indication value of the transmit power level to all of the plurality of wireless terminals (col.5 lines 54-55, closed loop control corresponds to indication value to a wireless terminal).

Application/Control Number: 10/623,517

Art Unit: 2618

Regarding claims 6 and 11, Arvelo discloses a wireless terminal (see col.1 lines 16-20 and fig.4, Arvelo teaching a wireless local area network which is considered include plurality terminals and a base station, the transmitter and receiver throughout the cited reference are applicable for a terminal and a base station) comprising:

a multiplex number deciding means for deciding a multiplex number of uplink control signals (see col.5 lines 36-37); a transmit power level deciding means for deciding a transmit power level of the uplink control signals according to the multiplex number of uplink control signals decided by the multiplex number deciding means (see col.5 lines 36-37); and a transmit power control means for controlling a transmit power level of the uplink control signals according to the decided transmit power level by the transmit power level deciding means (col.5 lines 54-55, closed loop control corresponds to indication value to a wireless terminal).

Regarding claims 7, 18 and 23, Arvelo discloses the transmit power level deciding means decides an increment in the transmit power level when the multiplex number of uplink control signals is large (see col.4 lines 1-5), whereas the transmit power level deciding means decides a decrement in the transmit power level when the multiplex number of uplink control signals is small (see fig.1 element 140, 160).

Regarding 8 and 19, Arvelo discloses the multiplex number deciding means decides the multiplex number of uplink control signals according to a multiplex number of downlink control signals corresponding thereto (see col.5 lines 20-35).

Regarding claims 9, 12-13, Arvelo discloses the signal quality estimation means estimates the quality of the uplink control signal according to the downlink data signal from the base station (see col.5 lines 24-25).

Regarding claims 10, 16, 21 and 25, Arvelo discloses the transmit power level of the uplink control signal is a transmit power level of an uplink control signal for informing an incorrect receipt of a downlink data signal from a base station (see col.5 lines 36-37).

Regarding claim 14, Arvelo discloses the signal quality estimation means decides that the quality of the uplink control signal for informing a correct receipt of the downlink data signal is degraded in a case where the wireless terminal receives the downlink data signal of informing a same message that was previously received after the wireless terminal sent an uplink control signal for informing a correct receipt of the downlink data signal which as previously received (see col.5 lines 20-35).

Regarding claim 15, Arvelo discloses the signal quality estimation means decides that the quality of the uplink control signal for informing an incorrect receipt of the downlink data signal is degraded in a case where the wireless terminal receives the downlink data signal of informing a different message that was previously received after the wireless terminal sent an uplink control signal for informing a correct receipt of the downlink data signal which as previously received (see col.5 lines 20-35).

Regarding claim 20, Arvelo discloses the multiplex number of signals deciding means measures the multiplex number of downlink control signals and decides the multiplex number of uplink control signals according to the measured multiplex number of downlink control signals (see col.5 lines 24-25, "performs the CRC" corresponds to "measured"):

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 24 is rejected under 35 U.S.C. 103(a) as being obvious over Arvelo (US Patent 7,082,107) in view of D'amico et al. (US Pub. 2004/0032853).

Regarding claim 24, Arvelo fails to disclosess the signal quality deciding means decides the quality of the uplink control signal according a bit error rate or a signal-to-noise ratio of at least one of a portion of informing the correct receipt of the downlink data signal and a blank portion thereof.

D'amico et al. disclose the signal quality deciding means decides the quality of the uplink control signal according a bit error rate (see par.043, lines 7-8) or a signal-to-noise ratio of at least one of a portion of informing the correct receipt of the downlink data signal and a blank portion thereof. Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Arvelo with the above teaching of D'amico et al. in order to determines a bit error rate in accordance with known techniques by computing a cyclic redundancy check (CRC).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883.

Art Unit: 2618

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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